

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) A refrigerator, comprising:
 - a body;
 - at least one storage a refrigerating chamber and a freezing chamber provided in the body and configured to store food;
 - a cool[[-]]air generating device provided in the body, ~~for generating a~~ and configured to generate a flow of cool air;
 - a cool[[-]]air supplying device configured to circulate air between the at least one storage chamber and the cool air-generating device wherein the cool air supplying device includes at least one opening that discharges cool air into the at least one storage chamber;
 - and
 - a separator provided adjacent to the at least one opening ~~for uniformly diffusing the cool air in the freezing chamber and the refrigerating chamber, by separating the cool air and~~ configured to separate a flow of cool air in the cool air supplying device into at least two passages flows such that the cool air discharged from the at least one opening into the storage chamber comprises a turbulent flow that is uniformly distributed through the storage chamber.

2. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator is ~~provided to~~ configured to partially block the flow of discharged cool air exiting from the cool air supplying device via the at least one opening.

3. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator ~~[[is]] extended~~ extends in a direction that is substantially perpendicular to a flowing direction of the cool air.

4. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator ~~oscillates~~ causes the discharged cool air to form an oscillating flow.

5. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator ~~generates~~ causes the flow of cool air in the cool air supplying device to form at least two vortices in opposite adjacent the at least one opening, and wherein the at least two vortices rotate opposite to one another.

6. (Currently Amended) The refrigerator as claimed in claim 5, wherein the vortices have a size and an intensity that are being different and that continuously change

changed.

7. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator is configured to cause ~~allow~~ the separated ~~passages~~ two flows of the cool air to collide with each other before they are ~~discharging~~ discharged ~~the cool~~ into the storage chamber.

8. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separated flows ~~passages~~ of the cool air collide with each other ~~in a straight line~~ substantially head on.

9. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separated flows ~~passages~~ of the cool air collide with each other at a predetermined angle.

10. (Currently Amended) The refrigerator as claimed in claim 1, wherein two opposite passages are formed between the separator and the at least one opening, and the separated flows of cool air ~~flows~~ flow along the two opposite passages.

11. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separated two flows mix together after passing the separator, and wherein the at least one opening is positioned adjacent to a ~~crossing point of meeting~~ point where the separated passages flows of the cool air cross one another and mix together.

12. (Currently Amended) The refrigerator as claimed in claim 1, wherein a length of an interval between the separator and the at least one opening is equivalent to (or smaller than) less than or equal to a width of the opening.

13. (Currently Amended) The refrigerator as claimed in claim 1, wherein a length of an interval between the separator and the at least one opening is about 0.5 times of a width of the at least one opening.

14. (Currently Amended) The refrigerator as claimed in claim 1, wherein a width of the separator is substantially equivalent to a width of the at least one opening.

15. (Canceled).

16. (Canceled).

17. (Currently Amended) The refrigerator as claimed in claim 1, wherein the at least one opening ~~[[is]] comprises at least two openings, and wherein the at least two openings are~~ configured to discharge the generated cool air into ~~[[to]] into the storage freezing storage chamber and the refrigerating chamber~~ in at least two different directions.

18. (Currently Amended) The refrigerator as claimed in claim ~~[[1]]~~ 17, wherein the ~~opening~~ openings are ~~[[is]]~~ configured to discharge the generated cool air ~~[[to]] into the storage freezing chamber in two substantially perpendicular directions and the refrigerating chamber, the generated cool air discharged in perpendicular.~~

19. (Currently Amended) The refrigerator as claimed in claim 1, wherein the at least one opening includes:

a first inlet ~~inlets~~ provided on ~~[[to]]~~ a top wall of the storage ~~refrigerating~~ chamber and configured and the freezing chamber, to discharge the cool air toward a lower side portion of the storage chamber; and

a second inlet ~~inlets~~ provided on ~~[[to]]~~ an upper sidewall of the storage ~~refrigerating~~

chamber ~~and the freezing chamber~~ and configured to discharge the cool air toward an opposite sidewall of the storage chamber.

20. (Currently Amended) The refrigerator as claimed in claim 19, wherein the first and second inlets discharge the cool air ~~at a~~ in directions that are substantially perpendicular direction to one another.

21. (Currently Amended) The refrigerator as claimed in claim 19, wherein the at least one opening further includes at least one outlet provided at a lower portion of the storage refrigerating chamber ~~and the freezing chamber for~~ and configured to discharging discharge the cool air ~~circulated in the freezing~~ from within the storage chamber ~~and the refrigerating chamber~~ towards the cool air generating device.

22. (Currently Amended) The refrigerator as claimed in claim 21, wherein the at least one outlet outlets comprises at least two outlets that are provided, respectively, on lower portions of ~~both~~ opposite sidewalls of the ~~freezing storage~~ storage chamber ~~and the refrigerating chamber~~.

23. (Currently Amended) The refrigerator as claimed in claim 19, wherein the at least one opening further includes:

a third inlet ~~inlets~~ provided at a lower portion of a one sidewall of the storage chamber and configured to ~~dischargeing~~ discharge the cool air towards ~~[[to]]~~ the opposite sidewall; and

a fourth inlet ~~inlets~~ provided on a bottom wall of the ~~refrigerating~~ storage chamber and ~~the freezing chamber for~~ and configured to discharge the cool air ~~[[to]]~~ toward an upper side portion of the storage chamber.

24. (Currently Amended) The refrigerator as claimed in claim 23, further comprising at least one outlet provided in approximately the center of ~~the~~ a sidewall of the ~~refrigerating storage chamber and the freezing chamber, for~~ and configured to ~~discharging~~ discharge cool air from within ~~circulated in the storage freezing chamber and the refrigerating chamber~~ towards the cool air generating device.

25. (Currently Amended) The refrigerator as claimed in claim 1, wherein the cool air supplying device comprises an outlet ~~opening~~ is configured to discharge the cool air from the storage ~~circulated in the freezing chamber and the refrigerating chamber~~ to the cool air~~[-~~

]]generating device.

26. (Currently Amended) The ~~refrigerating~~ refrigerator as claimed in claim 25 [[1]], wherein the ~~opening~~ outlet discharges the cool air ~~circulated in the freezing~~ from the storage chamber and the refrigerating chamber to an evaporator of the cool air [[-]]generating device.

27. (Currently Amended) The refrigerator as claimed in claim 1, wherein the cool air [[-]]supplying device further includes an auxiliary duct that is located ~~extended~~ adjacent to an the evaporator of the cool air [[-]]generating device, and that is configured to ~~for directly discharging~~ discharge the cool air from ~~circulated in the storage freezing chamber and the refrigerating chamber to~~ directly towards the evaporator.

28. (Currently Amended) The refrigerator as claimed in claim 27, wherein ~~the a~~ separator is positioned adjacent to an opening of the auxiliary duct, and wherein the separator is configured to separate a flow of air in the auxiliary duct into at least two flows.

29. (Original) The refrigerator as claimed in claim 1, wherein the separator is formed of a flat member.

30. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator is ~~formed of a round shape being protruded in opposite~~ has an elongated rounded shape, wherein protruding ends of the separator extend in a flowing direction of the cool air.

31. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator is formed of an angularly bent shape, having protruding ends that extend in ~~being protruded in opposite to~~ a flowing direction of the cool air.

32. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator is formed of an oval shape ~~to have~~ with both forward and rearward sides being rounded ~~round for the forward and opposite directions of the cool air.~~

33. (Original) The refrigerator as claimed in claim 1, wherein a plurality of protrusions or dimples are formed on the surface of the separator.

34. (Currently Amended) The refrigerator as claimed in claim ~~[[15]]~~ 1, wherein the cool air supplying device comprises at least one duct that passes between the cool air generating device and the at least one opening, and wherein a diameter of the at least one duct is expanded expands toward the inside of the storage refrigerating chamber and/or the freezing chamber.

35. (Currently Amended) The refrigerator as claimed in claim ~~[[15]]~~ 34, wherein the at least one duct has an expanded portion that is adjacent to the separator.

36. (Currently Amended) The refrigerator as claimed in claim 35, wherein a width of the expanded portion is about 2 to 2.5 times a width of the remaining portions of the at least one corresponding duct.

37. (Currently Amended) The refrigerator as claimed in claim 35, wherein a height of the expanded portion is about 1 to 1.2 times a width of the remaining portions of the at least one corresponding duct.

38. (Currently Amended) The refrigerator as claimed in claim ~~15~~ 34, wherein the expanded portion of the at least one duct ~~[[is]]~~ has a width that gradually expanded expands.

39. (Currently Amended) The refrigerator as claimed in claim ~~15~~ 38, wherein a sidewall of the expanded portion is inclined at a predetermined angle relative to a sidewall of an adjacent non-expanded portion of the at least one ~~the~~ duct.

40. (Currently Amended) The refrigerator as claimed in claim 1, wherein a plurality of openings are provided with a corresponding plurality of separators, and wherein the adjacent separators oscillate the discharged cool air at a in different directions.

41. (Currently Amended) The refrigerator as claimed in claim 1, wherein a plurality of openings are provided with a corresponding plurality of separators, and wherein the adjacent separators oscillate the discharged cool air in substantially perpendicular direction ~~direction~~ directions.

42. (Currently Amended) The refrigerator as claimed in claim 1, wherein a

plurality of openings are provided with a corresponding plurality of separators, and wherein adjacent separators are configured to separate a flow of cool air [[at]] into at least two flows that are directed in different directions.

43. (Currently Amended) The refrigerator as claimed in claim 1, wherein the separator further includes a one pair of supports that extend ~~extended~~ ~~from the~~ opposite sides of the separator ~~to a position near to the opening for supporting the separator.~~

44. (Currently Amended) The refrigerator as claimed in claim 43, ~~each in one~~ wherein a plurality of openings are provided with a corresponding plurality of separators, and wherein the respective pairs of supports of ~~from the~~ adjacent separators ~~supports support~~ different sides of the separators.

45. (Currently Amended) The refrigerator as claimed in claim 1, wherein ~~the~~ a plurality of openings are provided with a corresponding plurality of separators, and wherein adjacent openings have different sizes.

46. (New) The refrigerator as claimed in claim 28, wherein the at least two flows

formed by the separator in the auxiliary duct mix back together before exiting the opening to thereby form a turbulent flow of air exiting the opening.